

ABSTRACT OF THE DISCLOSURE

A motor device with an automatically adjustable output torque includes two permanent magnets disposed on an inner surrounding wall surface of a hollow frame body and adapted to produce a first magnetic field, and an armature rotatable between the magnets. The armature includes an armature core having two core segments which are brought to alternately face the magnets respectively when the armature is rotated, and an armature winding adapted to produce a second magnetic field. An output shaft extends from one end of the armature core, and is adapted to drive a wheel of an electromotive vehicle. A commutator is electrically connected to the armature winding, and is rotatable with a mounting shaft extending from the other end of the armature core. Two brush members are connected to a DC power supply, and are disposed to respectively contact two conductive segments of the commutator so as to provide direct current thereto. A regulating winding is disposed on one of the armature core and the magnets to produce a third magnetic field. A controlling member is disposed to control the flow of direct current to the regulating winding to increase or decrease the amount of magnetic flux of the first magnetic field.

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